

AICT & AQCT Lubricants Technical Specifications – Tender 2026

Tender for Oil and Grease Supply (T/HUT/ENG/02/2025)

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1. GENERAL CONDITIONS:

- 1.1. The supplier must follow all the below mentioned specifications of the offered Oil and Grease as described in **[Table 1]** and all requirements and terms and conditions.
- 1.2. The supplier must supply the required quantities in quarter basis as per our needs. **[Table 2]**
- 1.3. The purchaser (AICT/AQCT) has all rights to request laboratory testing samples of the delivered Oil and Grease if needed at the supplier's expense to check the specification and quality assurance of the products.

2. GENERAL REQUIREMENTS:

The following requirements are mandatory:

- 2.1. The supplier must provide products in suitable barrels, cans and bottles securely sealed and properly labeled.
- 2.2. All provided products must be manufactured in 2025 and all packages must to clearly indicate the production and expiry dates
- 2.3. The supplier must supply the required quantities in **quarter** basis to three terminals (Alexandria, Dekheila & Abu Qir) as per AICT/AQCT quarter Consumption.

3. SUPPLIER AND PRODUCT EVALUATION:

- 3.1. Suppliers must submit the following submittals in the tender documents for evaluation, and AICT reserves the right to reject any offer that does not include the following:
 - i. Complete the products datasheet of **[Table 3]**.
 - ii. Approvals and certificates of all offered items of oils and lubricants.
 - iii. Product Datasheet (PDS) and typical properties of all offered items of oils and lubricants.
 - iv. Material Safety Datasheet (MSDS) of all offered items of oils and lubricants.
 - v. Recommended Oil drain Intervals of all offered items of oils.
 - vi. Certification of Oil analysis Lab.

- vii. Reference List of products and customers especially in Egypt ports.
And provide supported documents of extended ODI of the offered products if any.

TABLE 1 OIL AND GREASE SPECIFICATION

No	Item Code	Description	Specification	Application
1	1016881	Lube Oil 85W140	• <u>Description:</u> Heavy Duty Automotive gear lubricant to provide protection in automotive axles and final drives over a wide temperature range and extreme drain operation. And to have thermal stability and resistance to oxidation, rust, and corrosion. Provide protection against wear. • <u>Specification:</u> -SAE Grade: 85W140 -Performance Approval: API GL-5 -Oil Drain Interval: 1000 running hours at least -Viscosity Index ASTM D2270: not less than 95 -Viscosity Grade: not less than 300 cSt @ 40°C And not less than 25 cSt @ 100°C -Flash point ASTM D92: not less than 220 °C.	• Automotive axles and final drives • Components Manufacture: Kessler and Sisu

No	Item Code	Description	Specification	Application
2	1016885	Hydraulic Oil ISO VG 46	<u>Description:</u> Heavy Duty and high quality Hydraulic containing antioxidant, anti-rust, anti-wear, and anti-foam additives to meet the heavy-duty requirements of hydraulic systems using high pressure and systems requiring high load-carrying capability. Excellent thermal and hydrolytic stability and excellent air release and water separation. Keep clean properties to reduce system deposits and sludge. Also extend Components lifetime and ODI. <u>Specification:</u> -ISO VG: 46 -Meets or exceeds DIN 51524-2: 2006-09 -Oil Drain Interval: 3000 running hours at least -Viscosity Index ASTM D2270: not less than 95 -Viscosity Grade: not less than 45 cSt @ 40°C And not less than 6.6 cSt @ 100°C -Flash point ASTM D92: not less than 220 °C.	- Industrial Hydraulic Circuits of STS, RTG, Forklift, Reach Stacker, Trucks, and Manlift - Components Manufacture: Parker, Rexroth, Hydac, Vickers, Genie, Linde, CAT, and CVS
3	1016888	Gear Reducer Oil ISO VG 220	<u>Description:</u> Heavy Duty gears oil having capability of working under extreme high pressure and load carrying properties. And enhance gear wear protection from micro pitting, minimize deposits, high thermal stability. And high resistance to oil oxidation, rut, corrosion, foaming, and sludge formation · <u>Specification:</u> - ISO Viscosity Grade: 220 - Meets or exceeds DIN 51517-3 - AGMA Grade: 5 EP - Oil Drain Interval will be 5000 hours at least - Viscosity Index ASTM D2270: not less than 95 - Viscosity Grade: not less than 220 cSt @ 40°C And not less than 18.5 cSt @ 100°C - Flash point ASTM D92: not less than 240 °C	- Gear Reducers of STS, RTG. - Gear Reducers Manufacture: Flender, and ZPMC

No	Item Code	Description	Specification	Application
4	100008	Gear Oil ISO VG320	Heavy Duty gears oil having capability of working under extreme high pressure and load carrying properties. And enhance gear wear protection from micro pitting, minimize deposits, high thermal stability. And high resistance to oil oxidation, rut, corrosion, foaming, and sludge formation - ISO Viscosity Grade: 320 - Meets or exceeds DIN 51517-3 - AGMA Grade: 6 EP - Viscosity Index ASTM D2270: not less than 95 - Viscosity @ 100 °C: not less than 23 cSt - Flash point ASTM D92: not less than 240 °C - Pour Point: not more -25	high speed Gear Reducers of STS, RTG.
5	1016886	Engine Oil 15W40	<u>Description:</u> Heavy Duty Diesel Engine Oil. provide high performance against soot build-up and high temperature and high resistance to oxidation, corrosion, and high temperature deposits. And has high performance on high Sulphur fuel and has high detergency characteristics. <u>Specification:</u> -SAE Grade: 15W40 -Mineral Oil with additives -API CK-4 certified -Oil Drain Interval will be 500 engine hours at least -Viscosity Index ASTM D2270: not less than 140 -Viscosity Grade: not less than 105 cSt -TBN ASTM D2896: not less than 10.2 mg KOH/g -Flash point ASTM D92: 200 °C -Sulphated Ash (wt%) ASTM D874 ≤ 1.0%. -NOACK volatility must not exceed 10%. Must meet oxidation stability requirements of Volvo VDS-4.5 and Cummins CES 20086. -Must be officially approved by: Volvo VDS-4.5, Cummins CES 20086, Detroit Diesel DFS 93K222, - -Mack EOS-4.5, MB-Approval 228.31 or higher. - Must pass Detroit Diesel DD13 Scuffing Test and meet CK-4 piston cleanliness standards.	- Off-Highway Container handling Equipment: RTG-Reach Stacker-Trucks-Pickups-Forklifts - Engine Manufacture: CAT_ C 18 Cummins QSX15, QSM11, QSB6.7 Perkins-Mitsubishi-Detroit - Turbocharged, Electronic fuel Injection and standard fuel injection Engines.

No	Item Code	Description	Specification	Application
			-Must be fully compatible with Diesel Particulate Filter (DPF), Exhaust Gas Recirculation (EGR), and Selective Catalytic Reduction (SCR) systems.	

No	Item Code	Description	Specification	Application
6	1016900	Multipurpose Grease NLGI 2	• <u>Description:</u> General purpose grease for heavy duty applications must provide Shock load protection, Load-carrying protection, corrosion and rust protection, Water resistant, and Maximum service lubrication excellent protection against rust. • <u>Specification:</u> -NLGI Grade: 2 -Thickener Type: Lithium -Worked Penetration ASTM D217:280 -Dropping Point D2265: not less than 190	• greasing of STS, RTG, Reach Stacker, Trucks, and Manlift • couplings, rollers, bearings, pushing, wheels, and sheaves.

No	Item Code	Description	Specification	Application
7	101476	Electrical Vehicle Coolant	<u>Description:</u> E-Thermal Fluid is a high-performance coolant with reduced electrical conductivity, designed for indirect cooling of the batteries of Battery Electric Vehicles (BEV's) via a cooling loop. E-Thermal Fluid is supplied as a premix and should not be diluted prior to use. <u>Specification:</u> -E-Thermal Fluid is designed as a liquid heat transfer medium for indirect cooling of battery cells, modules and packs where coolants with low electrical conductivity are required. -Freezing Point ASTM D1177: not less than -37 C -Boiling Point: not less than 125 C -eConductivity at 25 °C, ASTM D1125 is meet 100 $\mu\text{s}/\text{cm}$ to 300 $\mu\text{s}/\text{cm}$ -the percentage of ethylene glycol is $\geq 50\%$ -Drain Interval not less than:24 months -Flash Point not less than 130 C	Battery and Motor EV cooling circuits

No	Item Code	Description	Specification	Application
8	1016895	Coolant ICE	• <u>Description:</u> High performance coolant for engine radiators of off-highway and heavy-duty engines to provide protection against corrosion of radiators, cylinder blocks and water pumps. the coolant has is to be fully formulated with organic acid technology (OAT) • <u>Specification:</u> -Recommended for off-road heavy duty and industrial equipment -Non-Nitrated, phosphate-free, silicate-free, and brotate-free -Antifreeze mixes 50% -Meets ASTM D6210, Cummins CES 14603 -Drain Interval not less than:12,000 Hrs. -Boiling Point: not less than 125 C -Freezing Point ASTM D1177: not less than -37 C -Flash Point not less than 130 C	• Engine cooling Circuits
9	1016887	Automatic Transmission Fluid	• <u>Description:</u> Heavy Duty automatic transmission fluid. ATF Dexron III product. Shall have to provide smooth transmission operation and protection against wear and leakage and to has high thermal stability and excellent oxidation resistance. Also ensuring cold start high performance at low temperature. • <u>Specification:</u> -Oil type: ATF Dexron III. -Meets or exceeds ZF TE-ML 14A,04D. -Oil Drain Interval will be 1000 engine hours at least. -Viscosity Index ASTM D2270: not less than 160. -Viscosity @ 100 °C: not less than 8 cSt. -Flash point ASTM D92: not less than 195 °C.	• Off-Highway Container handling Equipment: Reach Stacker- Trucks- Forklifts • Automatic Transmission Manufacture: Dana-Allison – Mitsubishi

No	Item Code	Description	Specification	Application
10	101514	ATF 3309	<u>Description:</u> ATF™ 3309 is an exceptionally high-performance lubricant that meets original equipment manufacturers' specifications for use in certain slip-controlled lock-up automatic transmissions. <u>Specification:</u> -Oil type: ATF™ 3309. -Viscosity: @ -40 C, mPa.s, ASTM D2983: 13000. -Color, Visual: Red -Density @ 15 C, g/cm3, ASTM D4052: 0.852 -Pour Point, °C, ASTM D97: not less than -45 -Viscosity Index, ASTM D2270: not less than 181. -Viscosity @ 100 C, mm2/s, ASTM D445: 7.1 -Flash Point, Cleveland Open Cup, °C, ASTM D92: not less than 185 °C.	E-Truck Steering Oil
11	1016891	Lubricant Fluid API GL-4	<u>Description:</u> Heavy Duty tractor lubricant meets and exceed transmission and hydraulic fluid requirements. Must reduce ODI and has to provide optimum frictional properties and to have high thermal stability and excellent corrosion resistance. Also ensuring high thermal stability. <u>Specification:</u> -SAE Grade: 10W30 -Performance Level: API GL-4 -Oil Drain Interval will be 3000 engine hours at least -Viscosity Index ASTM D2270: not less than 130 -Viscosity @ 100 °C: not less than 8 cSt -Flash point ASTM D92: not less than 195 °C	Brakes of Off-Highway Container handling Equipment: Reach Stacker- Brakes
12	1016893	Mobil lube 80W90	<u>Description:</u> Heavy Duty Automotive gear lubricant to provide protection in automotive axles and final drives over a wide temperature range and extreme drain operation. And to have thermal stability and resistance to oxidation, rust, and corrosion. Provide protection against wear. <u>Specification:</u> -SAE Grade: 80W90. -Performance Approval: API GL-5.	- Automotive axles and final drives of Forklifts and slewing reducer. - Components Manufacture: Mitsubishi and ELME.

No	Item Code	Description	Specification	Application
			-Oil Drain Interval: 1000 running hours at least. -Viscosity Index ASTM D2270: not less than 100. -Viscosity Grade: not less than 130 cSt @ 40°C, And not less than 14 cSt @ 100°C. -Flash point ASTM D92: not less than 200 °C.	
13	1016897	Wire ropes grease	• <u>Description:</u> Wire Ropes grease for standard and plastic filled wire ropes. Shall have to provide optimum adhesive characteristics and ultra-protection against rust and corrosion. Also provide protection against extreme temperatures and mild acids. And reduce wear and maintain lifetime of wire ropes. • <u>Specification:</u> -Viscosity @ 100 °C: not less than 22 cSt. -Flash point ASTM D92: not less than 230 °C. -Dropping Point D2265: not less than 60.	• greasing of STS and RTG wire ropes. • Standard and plastic filled wire ropes.
14	1016896	Mobil Grease HP322 SP - Graphite 180KG	• <u>Description:</u> -A Lithium Complex of grease XHP 322 Mine are recommended for severe off-highway and mining applications in terms of operational severity and water spray. Specific applications include: • Bucket pins, pivot pins, and heavily loaded chassis components. • Heavy equipment central lubrication systems. • General purpose chassis lubrication. • <u>Specification:</u> -NLGI Grade: 2. -Thickener Type & color: Lithium - Gray-Black. -Worked Penetration ASTM D217:280. -Dropping Point D2265: not less than 270.	Fleet pivot pins, and heavily loaded chassis components, Heavy equipment & General-purpose chassis lubrication
15	1016899	Mobil grease XHP223 - High speed grease 18KG	• <u>Description:</u> -A Lithium Complex of high-speed grease where good in high temperature and anti-leakage properties are required. It is particularly recommended for severe truck wheel bearing applications or for rolling element bearings subject to vibration, or where higher speeds require a grease with higher consistency to provide channeling characteristics. • <u>Specification:</u> -NLGI Grade: 3. -Thickener Type & color: Lithium - Dark blue	High speed bearings grease lubricant

No	Item Code	Description	Specification	Application
			-Worked Penetration ASTM D217:235 -Dropping Point D2265: not less than 290	
16	Used Oil analysis	• <u>Description:</u> The supplier must provide oil analysis for 300 samples of oil products delivered all over the year to get results and comments of oil ratings of physical and chemical properties after usage and equipment rating of wears or contaminants. And to support the results with conclusion and recommendation. And the analysis reports to be submitted as soon as possible to take the corrective action. • <u>Specification:</u> -No. of Samples: 300. -Analysis Report Submission: 3-5 Days Oil analysis Lab Approvals and certification: ISO Certification.	All fleet used oil chemical analysis samples	

TABLE 2 DELIVERY SCHEDULE

No	Item Code	Description	Unit	AICT Quantity	AQCT Quantity	Delivery
1	1016881	Lube Oil 85W140	liter	2080	2288	Delivery will be in quarter batches that will be decided based on AICT and AQCT Both terminals actual consumption with (Two) weeks prior notice to the supplier.
2	1016885	Hydraulic Oil ISO VG 46	liter	12480	7741	
3	1016886	Engine Oil 15W40	liter	30784	3120	
4	1016888	Gear Reducer Oil ISO VG 220	liter		7072	
5	1016900	Multipurpose Grease NLGI 2(180kg)	KG		9000	
6	1016895	Coolant ICE	liter	1040	416	
7	101476	Coolant EV	liter		1248	
8	1016887	Automatic Transmission Fluid	liter	3744		
9	101514	ATF 3309	Liter		624	
10	1016891	Lubricant Fluid API GL-4	liter	4784		
11	1016897	Wire ropes grease NLGI-2 18KG	Kg	180	1800	
12	1016896	Mobil Grease HP322 SP - Graphite 180KG	Kg	180	1260	
13	1016899	Mobil grease XHP223 -High speed grease 18KG	Kg	36	72	
14		Used Oil Analysis	sample	300	300	

TABLE 3 DATASHEET

No.	Item Code	Description	Physical/ Chemical Properties	Standard	Limit/Value <i>"To be filled by Supplier"</i>
1	1016881	Lube Oil 85W140	SAE Grade	SAE	
			Standards	API	
			Recommended ODI (<i>Hours</i>)		
			Viscosity Index	ASTM D2270	
			cSt @ 40°C	ASTM D445	
			cSt @ 100°C	ASTM D445	
			Flash point	ASTM D92	
			Pour Point	ASTM D97	
2	1016885	Hydraulic Oil	ISO VG	46	
			Standards	DIN	
			Recommended ODI (Running Hours)		
			cSt @ 40°C	ASTM D445	
			cSt @ 100°C	ASTM D445	
			Viscosity Index	ASTM D2270	
			Flash point	ASTM D92	
			Pour Point	ASTM D97	
			Oxidation Stability	ASTM D943	
3	1016886	Engine Oil 15W40	Foam Tendency Stability Sequence I,II,III	ASTM D892	
			SAE Grade	SAE	
			Oil Type (<i>Mineral /Synthetic</i>)		
			Standards	API	
			Recommended ODI (<i>Engine Hours</i>)		
			Viscosity Index	ASTM D2270	
			Viscosity Grade (<i>cSt</i>)	ASTM D445	
			cSt @ 100°C	ASTM D445	
			TBN	ASTM D2896	
			Flash point	ASTM D92	
4	1016900	Multipurpose Grease	Pour Point	ASTM D97	
			Sulphated Ash (wt%)	ASTM D874	
			NLGI Grade		
			Thickener Type		
			Worked Penetration at 25°C	ASTM D217	
			cSt @ 40°C	ASTM D445	
			Timken Ok Value	D2509	
			4 Ball Weld Value	ASTM D2596	

No.	Item Code	Description	Physical/ Chemical Properties	Standard	Limit/Value <i>"To be filled by Supplier"</i>
			Rust Protection	ASTM D6138	
5	1016895	Coolant	Drain Interval Period (Engine Hours)		
			Standard Compliance [Yes/ No]	ASTM D6210 CUMMINS CES 14603	
			Non-Nitrated, phosphate-free, silicate-free, and brotate-free [Yes/ No]		
			Off-Road Application [Yes/ No]		
			Boiling Point		
			Freezing Point		
			Flash Point		
			Antifreeze mix %		
6	1016887	Automatic Transmission Oil	OIL Type		
			Approvals	ZF Approval	
			Recommended ODI (<i>Running Hours</i>)		
			Viscosity Index	ASTM D2270	
			Flash point	ASTM D92	
			Pour Point	ASTM D97	
			Brookfield Viscosity @ -40°C	D2983	
7	1016891	Fluid Oil	SAE Grade	SAE	
			Standards	API	
			Recommended ODI (<i>Engine Hours</i>)		
			Viscosity Index	ASTM D2270	
			Viscosity Grade @40°C (cSt)	ASTM D445	
			cSt @ 100°C	ASTM D445	
			Flash point	ASTM D92	
			Pour Point	ASTM D97	
			Zinc	ASTM D4951	
			Foam Tendency Stability Sequence I,II,III	ASTM D892	
8	1016893	Differential Oil 80W90	SAE Grade	SAE	
			Standards	API	
			Recommended ODI (<i>Hours</i>)		
			Viscosity Index	ASTM D2270	
			cSt @ 40°C	ASTM D445	
			cSt @ 100°C	ASTM D445	

No.	Item Code	Description	Physical/ Chemical Properties	Standard	Limit/Value <i>"To be filled by Supplier"</i>
			Flash point	ASTM D92	
			Pour Point	ASTM D97	
9	10168897	Wire ropes grease- NLGI-2	cSt @ 100°C	ASTM D445	
			Dropping Point	ASTM D2265	
			Flash point	ASTM D92	
10	1016896	Grease HP322 SP - Gravite 180KG	NLGI Grade		
			Thickener Type		
			Worked Penetration at 25°C	ASTM D217	
			cSt @ 40°C	ASTM D445	
			Timken Ok Value	D2509	
			4 Ball Weld Value	ASTM D2596	
			Rust Protection	ASTM D6138	
11	1016899	Grease XHP223 -High speed grease 18KG	NLGI Grade		
			Thickener Type		
			Worked Penetration at 25°C	ASTM D217	
			cSt @ 40°C	ASTM D445	
			Timken Ok Value	D2509	
			4 Ball Weld Value	ASTM D2596	
			Rust Protection	ASTM D6138	
12	Used Oil Analysis		Certifications and Approvals		

4. COMMERCIAL TERMS & CONDITIONS:

4.1. Delivery Terms

- Delivery shall be made to **AICT and AQCT warehouses in Alexandria, Dekheila, and Abu Qir Terminals.**
- Supply shall be in **quarterly batches**, subject to **EGPC approval** and based on actual consumption.
- Supplier shall arrange all transportation and unloading to the designated terminal warehouse.

4.2. Prices & Currency

- AICT and AQCT operate as **Private Free Zone entities**; all prices shall exclude taxes, duties, and VAT.
- All prices must be quoted in USD only.**
- Prices shall remain **firm and fixed** throughout the contract duration.

4.3. **Validity of Offer**

- Offers must remain valid for **a minimum of 90 calendar days** from the tender closing date.

4.4. **Payment Terms**

- **100% payment after each invoice**, after delivery and final acceptance of goods for the respective batch.

4.5. **Delivery Schedule**

- Delivery shall follow **Table 2 – Delivery Schedule**.
- Deliveries will be made **quarterly after EGPC approval**, with at least two (2) weeks' prior notice from AICT/AQCT.
- Actual quantities may be adjusted downwards depending on **real consumption needs**.

4.6. **Penalty for Delay**

- In case of delayed delivery, a penalty of **1% of the total contract value per week or part thereof** will apply, capped at **20%** of the total contract value.

4.7. **Inspection & Acceptance**

- All deliveries are subject to inspection upon arrival at AICT/AQCT warehouses.
- Non-conforming products will be **rejected and must be replaced** at Supplier's cost.
- AICT/AQCT reserve the right to send samples for laboratory analysis at the Supplier's expense if needed.

4.8. **Required Documentation**

The following documents must accompany each delivery:

- Commercial Invoice
- Packing List
- Certificate of Origin (if imported)
- Factory Test / Quality Certificates
- Warranty Certificate stating warranty period and conditions
- Product Datasheet (PDS) and Material Safety Datasheet (MSDS)

4.9. **Warranty**

- Warranty period: **12 months from installation or 24 months from delivery (whichever earlier).**
- A **Warranty LG** may also be required to cover the warranty period.

4.10. **Packaging & Marking**

- Oils and lubricants must be supplied in **sealed and labeled containers**:
 - Barrels (180 kg), Pails (18 kg), Bottles (1–5 L).
- Each container must clearly display:
 - Product name and grade
 - Batch/lot number
 - Production and expiry dates
 - Net weight or volume
 - AICT/AQCT Purchase Order number

4.11. **Tender Submission & Clarifications**

- **Submission Method:** Offers must be submitted in **two sealed envelopes**:
 1. **Technical Offer** (including compliance sheets, datasheets, certificates, MSDS, approvals, and all required documentation without prices).
 2. **Financial Offer** (including completed pricing form in USD).
- **Marking:** Each envelope must be clearly marked as either “Technical Offer” or “Financial Offer,” and both placed in one outer envelope labeled with the tender title and reference.
- **Deadline:** Late offers will not be accepted under any circumstances.